

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- Claim 1 (currently amended): An optical distance detecting or measuring device, comprising a light source with an emitter optic for projecting a light beam according to ~~the~~ an axis of the emitting optic onto a target to be measured, and a first detector for measuring an intensity of reflected source light received by the first detector and defining ~~the~~ a receiving axis contained in ~~the~~ a same reference plane as the emitting axis, ~~wherein said device comprises~~ at least a second detector for measuring an intensity of reflected source light received by the second detector, that is aligned with the first and second detector detectors being aligned on an axis contained in a plane that is inclined at an angle with respect to the reference plane, said angle being comprised between 10° and 170°, and a processing circuit for determining ratios between measured intensities of reflected source light at the at least first and second detectors, said ratios representing a distance.
- Claim 2 (currently amended): An optical distance detecting or measuring device, comprising at least a first light source with an emitting optic for projecting a light beam according to ~~the~~ an axis of the emitting optic onto a target to be measured, and a first detector defining ~~the~~ a receiving axis contained in ~~the~~ a same reference plane as the emitting axis, ~~wherein said device comprises~~ at least a second light source that is aligned with the first light source on an axis contained in a plane that is inclined at an angle with respect to the reference plane, said angle being comprised between 10° and 170°, and a processing circuit, wherein the first detector is for measuring intensities of reflected at least first and second source lights received by the first detector, and wherein the processing circuit determines ratios between measured intensities of reflected at least first and second source lights, said ratios representing a distance.
- Claim 3 (currently amended): An optical distance detecting or measuring device, comprising a light source and receivers, wherein the light source emits light pulses of different intensities that are intended alternately for each one of said receivers, ~~the~~ emitted intensities being regulated in such a manner as to produce signals having identical

amplitudes or corresponding to a predetermined function on the receivers.

- Claim 4 (previously presented): The device of claim 1, comprising a light source and receivers, wherein the light source emits light pulses of different intensities that are intended alternately for each one of said receivers, the emitted intensities being regulated in such a manner as to produce signals having identical amplitudes or corresponding to a predetermined function on the receivers.
- Claim 5 (previously presented): The device of claim 1, comprising a detecting system in the form of a position-sensitive detector (PSD).
- Claim 6 (currently amended): An optical distance detecting or measuring device, comprising a sensor with a single lens including distinct emitting and receiving sectors, each sector being provided with a prism for focusing the light beams on the emitting and the receiving elements, respectively.
- Claim 7 (previously presented): The device of claim 1, comprising a sensor with a single lens including distinct emitting and receiving sectors, each sector being provided with a prism for focusing the light beams on the emitting and the receiving elements, respectively.
- Claim 8 (original): The device of claim 1, wherein the receiving system comprises more than two receivers.
- Claim 9 (original): The device of claim 2, wherein the emitting system comprises more than two light sources.
- Claim 10 (previously presented): The device of claim 1, comprising a group of several receivers and a group of several emitters, each group being aligned on an axis contained in planes of which each one may be inclined individually with respect to said reference plane.
- Claim 11 (previously presented): The device of claim 2, comprising a light source and receivers, wherein the light source emits light pulses of different intensities that are intended

alternatingly for each one of said receivers, the emitted intensities being regulated in such a manner as to produce signals having identical amplitudes or corresponding to a predetermined function on the receivers.

- Claim 12 (previously presented): The device of claim 2, comprising a detecting system in the form of a position-sensitive detector (PSD).
- Claim 13 (previously presented): The device of claim 3, comprising a detecting system in the form of a position-sensitive detector (PSD).
- Claim 14 (previously presented): The device of claim 2, comprising a sensor with a single lens including distinct emitting and receiving sectors, each sector being provided with a prism for focusing the light beams on the emitting and the receiving elements, respectively.
- Claim 15 (previously presented): The device of claim 3, comprising a sensor with a single lens including distinct emitting and receiving sectors, each sector being provided with a prism for focusing the light beams on the emitting and the receiving elements, respectively.
- Claim 16 (previously presented): The device of claim 2, comprising a group of several receivers and a group of several emitters, each group being aligned on an axis contained in planes of which each one may be inclined individually with respect to said reference plane.
- Claim 17 (previously presented): The device of claim 3, comprising a group of several receivers and a group of several emitters, each group being aligned on an axis contained in planes of which each one may be inclined individually with respect to said reference plane.